

ABSTRACT

A radio device and an antenna structure comprising a ground plane, at least a first and a second radiator, both radiators being configured to provide at least one resonance frequency in order to provide at least one frequency band. The

5 antenna structure further comprises separate feed points for both radiators grounded to the ground plane. The first radiator is configured to provide at least two frequency bands, at least one of the frequency bands being at least partly overlapping with at least one frequency band provided by the second radiator. In addition, at least the first radiator is a groove plane antenna such
10 that coupling of the radiators with each other at least within the partly overlapping frequency range is substantially avoided.

(Figure 1)